

## Technical Purchase Description (TPD) For Powdered Hand Soap

### 1. Scope

This technical purchase description (TPD) covers commercially available powdered hand cleaner product, consisting of soap and borax for use in washroom dispensers to remove heavy occupational soils such as oils and greases. This TPD only covers the soap and soap refills. The soap as provided by an individual manufacturer will be used with the manufacturer's hand soap dispensing system.

### 2. Classification.

The product shall be of the following classes:

Class 1-Plain

Class 2-With lanolin

### 3. Units of Issue

The powdered hand cleaner shall be available in the following unit of issue:

One (1) five pound box

(Suggested unit of issue. Other units of issue will also be considered and not limited to the units listed below.)

### 4. Requirements

#### 4.1 Chemical Composition and Fineness Requirements

The hand soaps shall conform to the requirements of Table I, when test as specified in ASTM test methods D 460 & D 502.

Table I.

Requirement	Class 1		Class 2		ASTM
	Minimum	Maximum	Minimum	Maximum	Test Method D460
Anhydrous soda soap, %	23.0	27.0	23.0	39.0	Section 24-25
Insoluble matter in water, %	-----	0.2	-----	0..3	Section 22
Borax as $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$	72.0	77.0	57.0	75.0	Sections 56-58
Anhydrous lanolin, %	-----	-----	1.0	-----	-----
pH , 1% solution	8.7	9.7	8.7	9.7	Test Method D 1172
Weight % of hand soap retained on:					Test Method D 502
No12 US Standard Sieve	nil	nil	nil	nil	Test Method D 502
No 40 US Standard Sieve		15.0		15.0	Test Method D 502
No 100 UN Standard Sieve	45.0	80.0	45.0	80.0	Test Method D 502

## **4.2 Finished product**

The hand soap shall be a free-flowing powder of uniform composition and color, free of sediment and foreign materials. The addition of fragrance to the liquid toilet soap is optional.

## **4.3 Prohibited Materials**

### **4.3.1 Carcinogens**

The materials used in the powdered hand soap shall not contain any known or suspected human carcinogens in concentrations equal to or greater than 0.1% (by weight) as defined in: Code of Federal Regulations 29 CFR 1910.1000 Series, Occupational Safety and Health Administration (OSHA) Subpart Z Regulated Carcinogens/Toxic and Hazardous Substance List (latest edition); International Agency for Research on Cancer (IARC) Groups 1, 2A, and 2B (latest edition); and the latest annual report of the National Toxicology Program's (NTP) of Known to be Human Carcinogens, and Reasonably Anticipated to be Human Carcinogens.

### **4.3.2 Reproductive Hazards**

The materials used in the powdered hand soap shall not contain the following occupational reproductive hazardous chemicals if used in concentrations equal to or greater than 0.1 percent (by weight): acetohydroxamic acid, aminopterin, arsenic, benomyl, benzene, bromoxynil, cadmium, carbon disulfide, carbon monoxide, chlordecone, cyanazine, cycloheximide, cyhexatin, dinocap, dinoseb, 1,2-dibromo-3-chloropropane, m-dinitrobenzene, o-dinitrobenzene, p-dinitrobenzene, epichlorohydrin, ethylene glycol monoethyl ether, ethylene glycol monoethyl ether acetate, ethylene glycol monomethyl ether, ethylene monomethyl ether acetate, ethylene oxide, hexachlorobenzene, hydroxurea, lead, mercury and mercury compounds, methyl bromide, methyl mercury, nickel carbonyl, polybrominated biphenyls, polychlorinated biphenyls, 2,3,7,8-tetrachloro-dibenzo-para-dioxin, toluene, and warfarin and any other chemical species listed in OPNAVINST 5100.23, Chapter 29, Appendix 29-B. The most current version of the instruction can be obtained from the internet website: <http://www.navosh.net>.

## **4.4 Hazardous Waste**

The powdered hand soap shall not be classified as a hazardous waste in accordance with 29 CFR 1910.1200.

**4.5 Shelf Life.** The hand soap shall have a minimum shelf life of 36 months.

**4.6 Material Safety Data Sheets (MSDS).** The contracting activity shall be provided a material safety data sheet with each contract bid/proposal or prior to contract award. The MSDS shall be provided in accordance with the requirements of FED-STD-313 and 29 CFR 1910.1200, Hazardous Communication Standard. The MSDS shall be included with each shipment of the material covered by this TPD. The MSDS must be the most current version for the product.

## **5. Regulatory Requirements.**

The contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

## **6. Quality Assurance Provisions**

### **6.1 Contractor Certification**

The product provided shall meet the TPD requirements and conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

**6.2 Market Acceptability.** The following market acceptability criteria are necessary to document the quality of the product to be provided under this TPD:

- a) The company furnishing the hand cleaner must have been producing a product meeting the requirements of this technical purchase description for at least 6 months.
- b) The Government reserves the right to require proof of such conformance.

## **7. Preparation for Delivery**

The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging unless otherwise specified in the contract.

## **8. Sources for Documents**

**8.1** Copies of the Code of Federal Regulations (CFR) and Federal Acquisition Regulation (FAR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Website: HYPERLINK <http://www.access.gpo.gov/nara/cfr/cfr-table-sarch.html>.

**8.2** Copies of all IARC publications may be obtained directly from IARCPress, 150 Cours Albert Thomas, F-69372 Lyon cedex 08, France (Fax: +33 4 72 73 83 02; E-mail [press@iarc.fr](mailto:press@iarc.fr)).

**8.3** Copies of the most recent Annual Report on Carcinogens may be obtained from the U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program, P.O. Box 12233, Research Triangle Park, NC 27709. Website: HYPERLINK <http://ntp-server.niehs.nih.gov/NewHomeRoc/AboutRoC.html>

**8.4** Copies of ASTM test methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 [www.astm.org](http://www.astm.org)

**8.5** Copies of EPA/OPPTS test methods may be obtained directly from EPA website:

[www.epa.gov/opptsfrs/home/opptsim.htm](http://www.epa.gov/opptsfrs/home/opptsim.htm).

**8.6** Copies of Public Law 94-580 “Resource Conservation & Recovery Act” (RCRA) may be obtained from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

**8.7** Copies of Federal and Military Standards may be obtained from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Website: <http://www.dodssp.daps.mil>.